Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Muneshwaranagara								
	3rd main	1	240.00	5.20		1248.00			
	4th cross	1	40.00	4.35		174.00			
	3rd cross	1	44.00	4.10		180.40			
	2nd cross	1	45.00	4.30		193.50			
	1st cross	1	45.00	4.15		186.75			
	6th cross	1	98.00	4.25		416.50			
	Akkayamma temple, 1st main	1	295.00	4.00		1180.00			
	cross road -1	1	107.00	4.50		481.50			
	2nd main	1	300.00	4.70		1410.00			
	cross road -2	1	37.00	4.10		151.70			
	cross road -3	1	37.00	4.10		151.70			
	cross road -4	1	39.00	4.10		159.90			
	cross road -5	1	38.00	4.25		161.50			
	cross road -6	1	37.00	3.90		144.30			
	cross road -7	1	38.00	3.90		148.20			
	cross road -8	1	38.00	3.70		140.60			
	cross road -9	1	37.00	3.50		129.50			
	Pulkeshinagar	1	350.00	3.80		1330.00			
						10652.05	**Sqm**	**12.94**	**137865.22**
16	KSRRB M500- 15. Providing, laying bituminousConcrete using 40/60 THP capacity H.M.P with Mechanical paver Gr-II (30mm to 45mm), crushed aggregates of specified grading premixed with 5.4% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade,rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No.500.9 complete in all respects complete as per specifications MORTH Specification No.509 (P.No.164 Item No.21.22.6)								
	Basic rate	7659.00							
	11% AD-HOC	842.49							
	Sub Total-1	8501.49							
	6% AW	510.09							
	Sub Total-2	9011.58							
	Industrial Area								
	Nataraj indane gas road	1	360.00	7.40	0.03	79.92			
	Muneshwaranagara								
	3rd main	1	240.00	5.20	0.03	37.44			
	4th cross	1	40.00	4.35	0.03	5.22			
	3rd cross	1	44.00	4.10	0.03	5.41			
	2nd cross	1	45.00	4.30	0.03	5.81			
	1st cross	1	45.00	4.15	0.03	5.60			
	6th cross	1	98.00	4.25	0.03	12.50			
	Akkayamma temple, 1st main	1	295.00	4.00	0.03	35.40			
	cross road -1	1	107.00	4.50	0.03	14.45			
	2nd main	1	300.00	4.70	0.03	42.30			
	cross road -2	1	37.00	4.10	0.03	4.55			
	cross road -3	1	37.00	4.10	0.03	4.55			
	cross road -4	1	39.00	4.10	0.03	4.80			
	cross road -5	1	38.00	4.25	0.03	4.85			
	cross road -6	1	37.00	3.90	0.03	4.33			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	cross road -7	1	38.00	3.90	0.03	4.45			
	cross road -8	1	38.00	3.70	0.03	4.22			
	cross road -9	1	37.00	3.50	0.03	3.89			
	Pulkeshinagar	1	350.00	3.80	0.03	39.90			
						319.56	Cum	9011.58	2879753.83
17	KSRRB M800-13: Road marking with hot applied thermoplastic compound with reflect rising glass beads on bituminous surface- providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface to level, uniform and free from streaks and holes complete as per specifications. MORTH specification No. 803, No. 1974 (P.No.185 & I.No.24.15)								
	Basic rate	512.00							
	11% AD-HOC	56.32							
	Sub Total-1	568.32							
	6% AW	34.10							
	Sub Total-2	602.42							
	Industrial Area								
	Nataraj indane gas road	2	360.00	0.10		72.00			
	Muneshwaranagara								
	3rd main	2	240.00	0.10		48.00			
	4th cross	2	40.00	0.10		8.00			
	3rd cross	2	44.00	0.10		8.80			
	2nd cross	2	45.00	0.10		9.00			
	1st cross	2	45.00	0.10		9.00			
	6th cross	2	98.00	0.10		19.60			
	Akkayamma temple, 1st main	2	295.00	0.10		59.00			
	cross road -1	2	107.00	0.10		21.40			
	2nd main	2	300.00	0.10		60.00			
	cross road -2	2	37.00	0.10		7.40			
	cross road -3	2	37.00	0.10		7.40			
	cross road -4	2	39.00	0.10		7.80			
	cross road -5	2	38.00	0.10		7.60			
	cross road -6	2	37.00	0.10		7.40			
	cross road -7	2	38.00	0.10		7.60			
	cross road -8	2	38.00	0.10		7.60			
	cross road -9	2	37.00	0.10		7.40			
	Pulkeshinagar	2	350.00	0.10		70.00			
						445.00	Sqm	602.42	268076.54
18	Providing and fixing pre cast solid **cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete (P.No-25, I No-5.30)								
	Basic rate	313.00							
	11% AD-HOC	34.43							
	Sub Total-1	347.43							
	6% AW	20.85							
	Sub Total-2	368.28							
		2	22.00			44.00			
	B = A/0.45				A	44.00			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
					B	98.00	Nos	368.28	36,091.03
19	KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No-183, I No-24.1)								
	Basic rate	60.00							
	11% AD-HOC	6.60							
	Sub Total-1	66.60							
	6% AW	4.00							
	Sub Total-2	70.60							
		2	300.00	0.35		210.00			
						210.00	Sqm	70.60	14,825.16
								Total Construction Cost	14778261.04
								DPR & PMC Charges	221700.00
								Sub Total	14999961.04
								Utility Shifting, Miscellaneous, Rounding off	38.96
								GRAND TOTAL	15000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2016-2017, issue rates and Data Rates. 11% AD-HOC is added as per order issued on 06-02-2018

Assistant Engineer

Asst. Executive Engineer,

Executive Engineer,
Yelahanka Division,
BBMP Bangalore
7/2/18

Technical Sanction
Accorded For 1500064.
Head of A/C P: 2178
CER NO : 634 ..... Dt: 08/02/2018

[TA] CE (YNK)

Bruhat Bangalore Mahanagara Palike

Excecutive Engineer Yelahanka Division

Name of Work: Improvements of roads and drains in CHS 707 area in ward No. 03, Attur

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Estimate Cost Rs. Rate	150.00 Lakhs Amount
1	Removing & Refixing Stone Slabs of drains and Pointing in C.M(1:3). (Page No 25., I.No.5.33 of KPWD S.R 2016-17)								
	Basic rate	76.00							
	11% AD-HOC	8.36							
	Sub Total-1	84.36							
	6% AW	5.06							
	Sub Total-2	89.42							
	CQAL Layout								
	Top slab								
	2nd main	2	540.00	1.00		1080.00			
	3rd main	2	165.00	1.00		330.00			
	cross road	8	60.00	1.00		480.00			
	CHS 707								
	1st main	2	650.00	1.00		1300.00			
	Park road	2	150.00	1.00		300.00			
	4th main	2	130.00	1.00		260.00			
	Chithrakala training	2	119.00	1.00		238.00			
	cross road-1	2	114.00	1.00		228.00			
	Tirumala nagara								
	2nd cross	2	293.00	1.00		586.00			
	5th cross	2	150.00	1.00		300.00			
	Temple opp road	2	100.00	1.00		200.00			
	Drain slab								
	CQAL Layout								
	2nd main	2	500.00	1.65		1650.00			
	3rd main	2	165.00	1.65		544.50			
	cross road	8	60.00	1.65		792.00			
	CHS 707								
	1st main	2	650.00	1.65		2145.00			
	Park road	2	150.00	1.65		495.00			
	4th main	2	130.00	1.65		429.00			
	Chithrakala training	2	119.00	1.65		392.70			
	cross road-1	2	114.00	1.65		376.20			
	Tirumala nagara								
	2nd cross	2	293.00	1.65		966.90			
	5th cross	2	150.00	1.65		495.00			
	Temple opp road	2	100.00	1.65		330.00			
	Total Qty					**13918.30**			
	Consider 30% of total Qty					**4175.49**			
						4175.49	**Sqm**	**89.42**	**373379.00**
2	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 7.5cm thick (Page No 25., I.No.5.31.1 of KPWD S.R 2016-17).								
	Basic rate	628.00							
	11% AD-HOC	69.08							

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Sub Total-1	697.08							
	6% AW	41.82							
	Sub Total-2	738.90							
	Consider 10% of Total qty of item no -1					1391.83			
						1391.83	**Sqm**	**738.90**	**1028429.87**
	Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-								
	Basic rate	2100.00							
	Consider 10% of Total qty of item no -1					530.20			
						530.20	**Sqm**	**2100.00**	**1113420.00**
	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No142., I.No.19.1 of KPWD S.R 2016-17).								
	Basic rate	82.00							
	11% AD-HOC	9.02							
	Sub Total-1	91.02							
	6% AW	5.46							
	Sub Total-2	96.48							
	100km ld & lt, transport	100.00							
	Sub Total-3	196.48							
	COAL Layout								
	2nd main	2	500.00	0.55	0.40	220.00			
	3rd main	2	165.00	0.55	0.40	72.60			
	cross road	8	60.00	0.55	0.40	105.60			
	CHS 707								
	1st main	2	650.00	0.55	0.40	286.00			
	Park road	2	150.00	0.55	0.40	66.00			
	4th main	2	130.00	0.55	0.40	57.20			
	Chithrakala training	2	119.00	0.55	0.40	52.36			
	cross road-1	2	114.00	0.55	0.40	50.16			
	Tirumala nagara								
	2nd cross	2	293.00	0.55	0.40	128.92			
	5th cross	2	150.00	0.55	0.40	66.00			
	Temple opp road	2	100.00	0.55	0.40	44.00			
	culvert	2	7.00	1.50	1.00	21.00			
						1169.84	**Cum**	**196.48**	**229851.57**
	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.2)/ PWD SR 2016-17								
	Basic rate	5046.00							
	11% AD-HOC	555.06							
	Sub Total-1	5601.06							
	6% AW	336.06							
	Sub Total-2	5937.12							
	CC Road								

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
IOB Bank ATM	1	45.50	6.00	0.15	40.95			
Nandini store	1	44.00	4.70	0.15	31.02			
Thasery road	1	70.00	5.00	0.15	52.50			
Culvert	2	7.00	1.50	0.15	3.15			
					127.62	**Cum**	**5937.12**	**757695.71**
KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (P.23/I.5.9)/ PWD SR 2016-17								
Basic rate	5005.00							
11% AD-HOC	550.55							
Sub Total-1	5555.55							
6% AW	333.33							
Sub Total-2	5888.88							
Culvert	4	7.00	0.45	0.70	8.82			
					8.82	**Cum**	**5888.88**	**51,939.95**
KSRB - 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates at 0.78cum and fine aggregates at 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms.thick, well compacted, in foundation, plinth and cills including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. (P.No.12, I.No.4.6 of PW, P&IWTD SR 2016-17)								
Basic rate	5249.00							
11% AD-HOC	577.39							
Sub Total-1	5826.39							
6% AW	349.58							
Sub Total-2	6175.97							
Culvert	4	7.00	0.45	0.10	1.26			
					1.26	**Cum**	**6175.97**	**7,781.73**
Providing precast slab of 250 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-Data rate)								
Basic rate	5111.00							
	2	7.00	1.50		21.00			
					21.00	**Sqm**	**5111.00**	**107331.00**
KSRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1km and complete as per specifications. MORTH Specification No.301(P.No. 303, I.No. 19.14)								
Basic rate	46.00							
11% AD-HOC	5.06							
Sub Total-1	51.06							
6% AW	3.06							
Sub Total-2	54.12							
1.0km ld & lt, transport	100.00							
Sub Total-3	154.12							
TOTAL Layout								
2nd main	1	540.00	1.00	0.40	216.00			
3rd main	1	165.00	5.00	0.40	330.00			
Cross road	4	60.00	6.00	0.40	576.00			

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
765 707								
ark road	1	150.00	1.00	0.40	60.00			
hithrakala training	1	119.00	1.00	0.40	47.60			
ross road-1	1	114.00	1.00	0.40	45.60			
rumala nagara								
nd cross	1	293.00	5.50	0.35	564.03			
th cross	1	150.00	5.20	0.35	273.00			
emple opp road	1	100.00	5.50	0.35	192.50			
					2304.73	**Sqm**	**154.12**	**355212.51**
SSRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3(P.No. 149, I.No. 19.64)								
asic rate	5.00							
1% AD-HOC	0.55							
ub Total-1	5.55							
% AW	0.33							
ub Total-2	5.88							
TPAL Layout								
nd main	1	165.00	5.00		825.00			
ross road	4	60.00	6.00		1440.00			
rumala nagara								
nd cross	1	293.00	5.50		1611.50			
th cross	1	150.00	5.20		780.00			
emple opp road	1	100.00	5.50		550.00			
					5206.50	**Sqm**	**5.88**	**30,629.84**
SSRB M400-6.1. Construction of granular sub-base by providing close graded material, crushed stone aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material (Page No 155., I.No.20.4.2 of KPWD S.R 2016-17).								
ndustrial Area								
asic rate	1571.00							
1% AD-HOC	172.81							
ub Total-1	1743.81							
% AW	104.63							
ub Total-2	1848.44							
TPAL Layout								
nd main	1	540.00	1.00	0.15	81.00			
rd main	1	165.00	5.00	0.15	123.75			
ross road	4	60.00	6.00	0.15	216.00			
765 707								
ark road	1	150.00	1.00	0.15	22.50			
hithrakala training	1	119.00	1.00	0.15	17.85			
ross road-1	1	114.00	1.00	0.15	17.10			
rumala nagara								
nd cross	1	293.00	5.50	0.15	241.73			
th cross	1	150.00	5.20	0.15	117.00			
emple opp road	1	100.00	5.50	0.15	82.50			
					441.23	**Cum**	**1848.44**	**815577.32**

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
KSRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158 I.No.20.18)								
Basic rate	1668.00							
11% AD-HOC	183.48							
Sub Total-1	1851.48							
6% AW	111.09							
Sub Total-2	1962.57							
TQAL Layout								
2nd main	1	540.00	1.00	0.20	108.00			
3rd main	1	165.00	5.00	0.20	165.00			
cross road	4	60.00	6.00	0.20	288.00			
OHS 707								
Park road	1	150.00	1.00	0.20	30.00			
Chithrakala training	1	119.00	1.00	0.20	23.80			
cross road-1	1	114.00	1.00	0.20	22.80			
Tirumala nagara								
2nd cross	1	293.00	5.50	0.20	322.30			
5th cross	1	150.00	5.20	0.20	156.00			
Temple opp road	1	100.00	5.50	0.20	110.00			
					1225.90	Cum	1962.57	2405913.09
Providing and applying primer coat with ss bitumen emulsion on prepared surface of granular base such as WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. MORTH Specification No.502 (P.No.160/It No.21.6)								
Basic rate	26.00							
11% AD-HOC	2.86							
Sub Total-1	28.86							
6% AW	1.73							
Sub Total-2	30.59							
TQAL Layout								
2nd main	1	540.00	1.00		540.00			
3rd main	1	165.00	5.00		825.00			
cross road	4	60.00	6.00		1440.00			
OHS 707								
Park road	1	150.00	1.00		150.00			
Chithrakala training	1	119.00	1.00		119.00			
cross road-1	1	114.00	1.00		114.00			
Tirumala nagara								
2nd cross	1	293.00	5.50		1611.50			
5th cross	1	150.00	5.20		780.00			
Temple opp road	1	100.00	5.50		550.00			
					6129.50	Sqm	30.59	187511.21